

WHAT IS CLAIMED IS:

1. An RLP (Radio Link Protocol) frame receiving method, comprising:
discriminating an error frame from received RLP frames;
measuring a degree of loss of the received RLP frame and comparing the measured degree of loss with a reference value when an error frame is detected;
varying XID (Exchange Identification) parameters set at an initial stage of reception on the basis of a comparison result; and
requesting retransmission of an RLP frame corresponding to the error frame on the basis of the varied XID parameters.
2. The method of claim 1, wherein the degree of loss of the RLP frame is a rate of the error frame from all RLP frames to be received.
3. The method of claim 1, wherein the XID parameters include a retransmission time of the error frame, a number of retransmission requests of the error frame and a length of the RLP frame.
4. The method of claim 1, wherein the discriminating further comprises:
terminating the reception of the RLP frame when the error frame is not detected from all the received RLP frames.

5. The method of claim 1, wherein the measuring and comparing includes:
varying the XID parameters and requesting retransmission of an RLP frame
corresponding to the error frame on the basis of the varied XID parameters when the
measured degree of loss is greater than the reference value; and

requesting retransmission of an RLP frame corresponding to the error frame on the
basis of the XID parameters set at the initial stage of the reception when the measured
degree of loss is not greater than the reference value.

6. The method of claim 1, further comprising:
determining whether a retransmitted RLP frame is normally received.

7. The method of claim 6, wherein the determining further comprises:
comparing a retransmission time of the retransmitted RLP frame and a
predetermined time; and

comparing the number of retransmission requests of the RLP frame and a
predetermined number when the retransmission time of the RLP frame elapses the
predetermined time.

8. The method of claim 7, wherein comparing a retransmission time further
comprises:

requesting retransmission of an RLP frame when the retransmission time
of the retransmitted RLP frame is within the predetermined time.

9. The method of claim 7, wherein comparing the number of retransmission requests further comprises:

displaying an error message, and terminating the reception of the RLP frame when the number of retransmission requests of the retransmitted RLP frame exceeds the predetermined number; and

requesting retransmission of an RLP frame when the number of retransmission requests of the retransmitted RLP frame does not exceed the predetermined number.

10. A method of receiving a radio link protocol frame, comprising:

receiving data including a radio link protocol frame;

discriminating an error frame from said received data;

varying at least one exchange identification parameter based on a comparison result;

and

requesting retransmission of said error frame using said at least one varied exchange identification parameter.

11. The method of claim 10, wherein discriminating the error frame includes:

measuring a degree of loss of the received radio link protocol frame;

comparing said measured degree of loss with a reference value; and

generating said comparison result from said comparing.

12. The method of claim 11, wherein said measuring, said comparing and said generating are only performed when an error frame is detected.

13. The method of claim 10, wherein reception of said radio link protocol frame is terminated when said discriminating does not produce an error frame.

14. The method of claim 10, further comprising:
comparing a time taken for a retransmission of said radio link protocol frame to a predetermined time;
comparing a number of retransmissions to a predetermined number when said time taken for a retransmission is greater than said predetermined time; and
displaying an error message and terminating reception of said radio link protocol frame.

15. The method of claim 14, wherein said discriminating, said varying, said requesting, and said comparing a time are repeated when said time taken for a retransmission is not greater than said predetermined time.

16. The method of claim 14, further comprising:
requesting retransmission of said radio link protocol frame corresponding to said error frame when said number of retransmissions is not greater than said predetermined number.

17. The method of claim 10, wherein said retransmitted radio link protocol frame corresponds to said error frame.

18. The method of claim 10, wherein said at least one exchange identification parameter includes at least one of a retransmission time of said error frame, a number of retransmission requests of said error frame, and a length of said radio link protocol frame.

19. A mobile terminal receiver, comprising:
an antenna receiving data; and
a controller which varies at least one exchange identification parameter used for transmitting a radio link protocol frame based on a degree of loss of a previously received radio link protocol frame.

20. The mobile terminal receiver of claim 19, further comprising:
a universal asynchronous receiver/transceiver;
a rate adaption;
a radio link protocol;
a layer 2 relay function;
an at command interpreter; and
a man machine interface.

21. The mobile terminal receiver of claim 18, wherein said mobile terminal receiver is used in a global system for mobile communication network.

22. The mobile terminal receiver of claim 19, where said at least one exchange identification parameter includes at least one of a retransmission time of an error frame, a number of retransmission requests of said error frame, and a length of said radio link protocol frame.

23. A method for controlling data transmission in a mobile communication system, comprising:

receiving a number of radio link protocol frames;

determining existence of an error frame in the received radio link protocol frames cause by an adverse radio environment;

adjusting an exchange identification parameter based on detection of the error frame; and

requesting retransmission of at least the error frame using the adjusted exchange identification parameter.

24. The method of claim 23, wherein said determining the existence of an error frame includes:

measuring a degree of loss of one of said received radio link protocol frames;

comparing said measured degree of loss with a reference value; and
generating a comparison result from said comparing.

25. The method of claim 24, wherein said measuring, said comparing and said generating are only performed when an error frame is detected.

26. The method of claim 23, wherein reception of said radio link protocol frames is terminated when an error frame does not exist.

27. The method of claim 23, further comprising:
comparing a time taken for a retransmission of at least said error frame to a predetermined time;
comparing a number of retransmissions to a predetermined number when said time taken for a retransmission is greater than said predetermined time; and
displaying an error message and terminating reception of said radio link protocol frames.

28. The method of claim 27, wherein said discriminating, said varying, said requesting, and said comparing a time are repeated when said time taken for a retransmission is not greater than said predetermined time.

29. The method of claim 27, further comprising:
requesting retransmission of at least said error frame when said number of retransmissions is not greater than said predetermined number.

30. The method of claim 23, wherein said exchange identification parameter includes at least one of a retransmission time of said error frame, a number of retransmission requests of said error frame, and a length of said radio link protocol frame.